

NOVEMBER/DECEMBER 2023

**23UFBC14 — BASICS IN BIOCHEMISTRY**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions

1. Define carbohydrates.
2. Explain the solubility of simple protein albumin.
3. Recall the nitrogenous bases that are found in DNA.
4. Outline the function of rRNA.
5. What is holoenzyme?
6. How are fat soluble vitamins classified?
7. What are microbes?
8. Summarize the name of the immune cells that defends the body against infection.
9. List the common types of clinical specimens analyzed in medical laboratories.
10. Relate AAPC with medical coding.

**SECTION B — (5 × 5 = 25 marks)**

**Answer ALL questions.**

11. (a) Make use of glucose and explain its structure and properties.

**Or**

- (b) Analyze the role of lipids.

12. (a) Organize the steps in central dogma of molecular biology.

**Or**

- (b) Examine the structure of tRNA.

13. (a) Identify and list any five functions of enzymes in biological system.

**Or**

- (b) Analyze the structure of Vitamin A and its deficiency disorder.

14. (a) Identify the role of microbes in fermentation.

**Or**

- (b) Examine the role of granulocytes in immune response.

15. (a) Identify and explain the tests carried out in diagnostic laboratories.

**Or**

- (b) Organize the roles and responsibilities of medical coder.

**SECTION C — (3 × 10 = 30 marks)**

**Answer any THREE questions.**

16. Explain the classification of lipids with examples.

17. Appraise about the Watson and crick model of DNA.

18. Assess the structure and deficiency symptoms of Vitamin C.

19. Discuss in detail the five kingdom classification of microbes.

20. Compile the applications of medical coding.
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